

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/553,884
Source: Pg 10
Date Processed by STIC: 11/2/05

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PCT

RAW SEQUENCE LISTING

DATE: 11/02/2005

PATENT APPLICATION: US/10/553,884

TIME: 09:44:23

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11022005\J553884.raw

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3 <110> APPLICANT: Agrinomics LLC
5 <120> TITLE OF INVENTION: GENERATION OF PLANTS WITH ALTERED OIL CONTENT
7 <130> FILE REFERENCE: 6616-72014-06
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/553,884
C--> 9 <141> CURRENT FILING DATE: 2005-10-20
9 <150> PRIOR APPLICATION NUMBER: PCT/US2004/012278
10 <151> PRIOR FILING DATE: 2004-04-19
12 <150> PRIOR APPLICATION NUMBER: 60/464,558
13 <151> PRIOR FILING DATE: 2003-04-22
15 <160> NUMBER OF SEQ ID NOS: 6
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 693
21 <212> TYPE: DNA
22 <213> ORGANISM: Arabidopsis thaliana
24 <400> SEQUENCE: 1
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27 cacaggtatt tcgttgaaca gcttatgtgt gcttcttcct tggatgaaac taatcgatc      120
29 tctctcgaag aacaacaatc tctcgtggcc cagtttctat ctactgtct tcaatactac      180
31 caagagaaat tcgcctccgt ttccctcgcc ggggacaacg ttttcacttt cttctgcccc      240
33 ccgtggttta actcctacgc taaacttatt ttatgggtcg gcgatttcaa gccttctctt      300
35 gtgttttaaac tcaccgaggt ctccgtggcc gacctcacgc gccaccagaa agaccggatc      360
37 tcgagtctta agtcggagac taggaggaaa gagagagaag ttatgcgaga tttcgccctc      420
39 gtgcaacaaa gcgtggcgga tccgccggtg atgctcgcgg cgaggcgcgt gggagcggtg      480
41 ggaatggtgg acggagaaga aacggatttg gaggaggcga tggagggtgct taaagctggg      540
43 atggcggcag cgatgaacaa cgctgatcag ctacggtggt cgacggtggg gaaagtggg      600
45 gagattctta ctccgccgca agcgattaaa gtgttgagga caatcggaca gcttcacctc      660
47 cgtctgagag acagagacca agaaagagct taa                                     693
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 230
52 <212> TYPE: PRT
53 <213> ORGANISM: Arabidopsis thaliana
55 <400> SEQUENCE: 2
57 Met Pro Asn Thr Ser Ser Ser Gln Ser Phe Thr Ile Phe Val Asp Gly
58 1          5          10          15
61 Trp Leu Ile Arg His Arg Tyr Phe Val Glu Gln Leu Met Cys Ala Ser
62          20          25          30
65 Ser Leu Asp Glu Thr Asn Arg Ile Ser Leu Glu Glu Gln Gln Ser Leu
66          35          40          45
69 Val Ala Gln Phe Leu Ser His Cys Leu Gln Tyr Tyr Gln Glu Lys Phe
70          50          55          60
73 Ala Ser Val Ser Leu Ala Gly Asp Asn Val Phe Thr Phe Phe Cys Pro
74 65          70          75          80

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77 Pro Trp Phe Asn Ser Tyr Ala Lys Leu Ile Leu Trp Val Gly Asp Phe
78                               85                               90                               95
81 Lys Pro Ser Leu Val Phe Lys Leu Thr Glu Val Ser Val Ala Asp Leu
82                               100                              105                              110
85 Thr Arg His Gln Lys Asp Arg Ile Ser Ser Leu Lys Ser Glu Thr Arg
86                               115                              120                              125
89 Arg Lys Glu Arg Glu Val Met Arg Asp Phe Ala Leu Val Gln Gln Ser
90                               130                              135                              140
93 Val Ala Asp Pro Pro Val Met Leu Ala Ala Arg Arg Val Gly Ala Val
94 145                               150                              155                              160
97 Gly Met Val Asp Gly Glu Glu Thr Asp Leu Glu Glu Ala Met Glu Val
98                               165                              170                              175
101 Leu Lys Ala Gly Met Ala Ala Ala Met Asn Asn Ala Asp Gln Leu Arg
102                               180                              185                              190
105 Cys Ser Thr Val Gly Lys Val Val Glu Ile Leu Thr Pro Pro Gln Ala
106                               195                              200                              205
109 Ile Lys Val Leu Arg Thr Ile Gly Gln Leu His Leu Arg Leu Arg Asp
110                               210                              215                              220
113 Arg Asp Gln Glu Arg Ala
114 225                               230
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118 <211> LENGTH: 1163
119 <212> TYPE: DNA
120 <213> ORGANISM: Arabidopsis thaliana
122 <400> SEQUENCE: 3
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125 gacactgatg agaggaacca gatgtttgaa caaggacttg ttgctgtccc cacagcttct      120
127 gattctagtg acaaatcaag ggacaaacta gatcagaaga cacttcggcg tcttgcccaa      180
129 aatcgtgaag ctgcccggaa aagccgttta cgaaagaagg catacatcca aaaccttgag      240
131 agtagcagat tgaaacttac tcagttagag caagagcttc accagactcg tcaacagggg      300
133 atttttatct ctacatcagg agatcaacct caatcaacaa gcggaaatgg agctttggca      360
135 tttgacatgg agtatgcacg ctggttgga gagcacaaca aacatgtaaa tgagttgagg      420
137 cttgcagtcg atgcacatgc cgggtgataat gatctccgtg gtattgttgg tagtgttatg      480
139 gcacactacg atgaattttt caggctcaag ggtgtggcag ctagatcaga tgtttttcat      540
141 gtgctgtctg ggatgtggaa gacccttctg gagagatgtt tcatgtggtt aggtggcttc      600
143 cgatcatctg aggttcttaa gttactggca ggtcacctag agcctcttac tgatcagcag      660
145 cttgttggtg tatccaacct gcagcagtc tccaacaag ctgaagatgc tctttctcaa      720
147 gggatggaag cattacaaca gtcgcttgca gaaactctag catctggatc cctgggccct      780
149 gctggacctt ctggcaatgt tgcaaattac atgggacaaa tggcgatggc tatgggaaaa      840
151 cttggcaccg tagagaactt tctacgacag gctgataatc tacggctgca aacacttcaa      900
153 caaatgcaac gcatcttaac cacccgacaa tccgcacgag ccctacttgc aataagcgac      960
155 tactttctct ggctgcgtgc tttgagttct ctttggcttg cccgtccaag ggaataaatt      1020
157 caattaactc ataaatagga ttttttttgt actgtctcta gtatgtcaat tagtttcttc      1080
159 acattgctca tgtgttgatg ggatatttgg atctaagatc ttatgaatgg atgacatgta      1140
161 tgtgttcaag tgaaaaaaaa aaa                                     1163
164 <210> SEQ ID NO: 4
165 <211> LENGTH: 1024
166 <212> TYPE: DNA
167 <213> ORGANISM: Arabidopsis thaliana

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170 <220> FEATURE:

171 <221> NAME/KEY: misc_feature

172 <222> LOCATION: (416)..(417)

173 <223> OTHER INFORMATION: n is a, c, g, or t

175 <400> SEQUENCE: 4

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176 tggaaagaac ctttttttgg gttgggggggt tcaaacctgg aatggccttt caggttgtga      60
177 acgcagcttt ggagggtttg tcagaacagc aaaaggagag gctgagtttg ctcaaccaag      120
180 agaccaaggt gaaggagaga gccctcaatg atgagttggc caagcttcat gagagtgtgg      180
182 cagctccacc gctgggtggac atggccagga gccatggtag ggtgtgtttc agtaggtcct      240
184 tcatggcaga tgggggtttc tccgttccaa gcactttcag atagacattg gagaatctgg      300
186 aggcaaatgc agatgctttg aggacaaaca catctttgaa gattctccag atactgagac      360
W--> 188 cttctcagct tgtttcattc ttggctgctg ttggctgagct tcagatcagg attggnnctt      420
190 ggggttttga caaggatgcc ctgaatggag gccaaagggtg aaagtcaatt aacgggaatt      480
192 tgaaggcttt tttatgtaag ttgctttcag tttttgtctt ttttgggaac tggtttgagt      540
194 tggaggatgg atacataggc atttagcctt ttagcatcat gatgatggat ggtgtgcatt      600
196 gggcagtgag catgttcact gcctgtaatg ttgtttctct ctacctggtt tgggtgggcat      660
198 tgaacaatga tgaacaaaac aaggccatgc aatgcatact tttatctaga ggctaaaagc      720
200 atcaatatat ttgtacctct tgagatagag gcaagtactc caggttctct ctactcaagc      780
202 agctacccca gatttcaatt ggttgctata tttaccatag taagtaggta gtagatacct      840
204 aaggattatt tatttttctt ttttttgtga tattaagaca tgttttctaa tttctagtga      900
206 agaacttgga tggatgtata ggatgtggta ccttgaaaat tacttttcaa cgtcccactc      960
208 actttgacat tgcacaaag taagtttctc cctaaggggt ctttttggtc ctttctctca      1020
210 caca                                         1024

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213 <210> SEQ ID NO: 5

214 <211> LENGTH: 1234

215 <212> TYPE: DNA

216 <213> ORGANISM: Arabidopsis thaliana

218 <400> SEQUENCE: 5

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219 ggcgcagctg gcagggtgcaa ctgagcaatt gcagacctgg gagttgcttc cattatcttg      60
221 cacacactac taggtggcta gccatcgagc acaatcatgt ccaagctggc aagtagtgct      120
223 tcataccttg tctccacctc gccaaacggt tctccttccc gtgaaacggt tcgcaaatc      180
225 ttcgagtgct ggcttgagga gcaaaacaat tatctcgaac aactcatctc aacctgtaaa      240
227 gattatgatc acaacagaaa aaactcccc cagtcattctc aggcaaccct ccagcctctt      300
229 atcaaccgtg ttcttgagca ttatgaacat tattatagat ccaagtcaag atggggccaaa      360
231 gatgatgtgt tatccatgct ctctccttca tggaccagca ctctcgagca tgcttttctt      420
233 tggatcggtg ggtggcgggc ctctgtggct tttcacttgc tctactcaa gtcagggtcat      480
235 cagtttgagg ctcaactcca tgagttgatt tgtgggttgg ggacagggtg cttgggtgac      540
237 ctttcagcta gtcaactcac ccgagttgat cagttacaga ggaagactgt cagggaagag      600
239 aacgagctga ctgagaagct tgcaaagcaa caagaaactg tagcagactc gtctatggtg      660
241 gagttagcac atgaggtgac tgagttgttg aggagcgaga acacgggtga tgaagtggag      720
243 gaagagcgag ttgagtcacac tctggcacct aaaaaggatg gattgcagga aatcttgacg      780
245 atggctgatg atctacggct gagaactatc aaagggtgta tcgagatttt gactccaatc      840
247 caagccgttc atttcttgat tgcagctgct gagttgcact tgcgccttca tgactggggc      900
249 aagaaggggtg attgggcacg ccgcgtccac cactgatatg cgatttatta ggggataatc      960
251 atccatgaat tacaccata ttcgctgttc tgttgacata attaagaaat ggggagactg      1020
253 attttggttt tagaggcagg ataagcaaga tacgcagtaa tgtttaatta tattttcaga      1080
255 ttgaatctat ctatgtttac tatgtattat ccatcaggtg ctttgagtcc tcaagcactg      1140
257 gcattttagt ttaatatatg tattatgtat gatgttgcca gttaatttct ccaacttggc      1200
259 tttggctata attgaagtat tttgaaagat tgaa                                         1234

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262 <210> SEQ ID NO: 6
263 <211> LENGTH: 1083
264 <212> TYPE: DNA
265 <213> ORGANISM: Arabidopsis thaliana
267 <400> SEQUENCE: 6
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270 aatgggctag aaaatggcaa atcattccac aagttttttt gaatcatggc tcgttaaaca      120
272 aaatcaagat ttggatcagc ttgtacgtgc ctcaaaagac gacgacaaca acaacaagaa      180
274 caacaatgac atgatgttgt catctttaat tcatagtgtg gtgaaacatt atgaagaata      240
276 ttatagagag aaatcacgat acgctattag tgatatttta ggcatgttgc acccctcatg      300
278 gttaagtaat cttgaagatg cttttttatg gattgggtgga tggagacctt gtatggcttt      360
280 tcatttgtaa tactcaaaat caggtatata acttgaagct aatcttcatg agttaattag      420
282 aggatttaac acaaaagatt taggaaattt aagtggtaat caacttgtat taattgatga      480
284 gttacaacat aagacaataa gtgaagaaag aaagctaagt gaaaatttag ctaaagttca      540
286 agaaacttta gctgatgcat caatggttga attatcacat gttgtgagtg aattaatgag      600
288 ggatgatcaa ttagttgtta atgatgaaga ggaaaaaatt aagaaaaata ttagtaaaaa      660
290 agaggaaaagt ttattggatt tgttgaaaaa agctgatgat ttaagggttaa gtacaattaa      720
292 agagattttg agaattttga catcaacaca aggtgttcac ttcttgattg ctgctgctga      780
294 acttcatttg aggattcatg aatggggtaa gaagaaagat gctgctgttt ctcatcataa      840
296 atggatcatg caaacaataa acgacgagcc aaattctgag gggacgtctg tcagaaatta      900
298 gtcattcaga tctattagaa tgatacagag aagatcaacg tggacttaa tagttatgaa      960
300 tattcttaat tactacttaa ggagctagcc aaatgttatt agtattaatt actaggtaga     1020
302 ttgtaaatagg ataaagttct tttaagggct tttttttttg tttcattttt gtttatgtag     1080
304 tga                                     1083

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/553,884

DATE: 11/02/2005
TIME: 09:44:24

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\11022005\J553884.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 416,417

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/553,884

DATE: 11/02/2005

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Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11022005\J553884.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:360